7. A small sphere of mass $m = 1$ kg is moving with a velocity $(4\hat{i} - \hat{j})$ m/s. It hits a fixed smooth wall and rebound with velocity $(\hat{i} + 3\hat{j})$ m/s. The coefficient of restitution between the sphere and the wall is $\frac{n}{16}$. Find the value of n.

(1) 3      (2) 6
(3) 9      (4) 15

8. A particle moving in a straight line is acted upon by a force which performs work at a constant rate and changes its velocity from u to v over a distance x. Find the time of the motion

(1) $\frac{3}{2}\left[\frac{(u+v)x}{u^2 + v^2 + uv}\right]$   (2) $\frac{1}{2}\left[\frac{(u+v)x}{u^2 + v^2 + uv}\right]$

(3) $\frac{1}{2}\left[\frac{(u-v)x}{u^2 + v^2 + uv}\right]$   (4) $\frac{3}{2}\left[\frac{(u+v)x}{u^2 + v^2 - uv}\right]$

9. 



The system of masses A and B shown in the figure is released from rest with $x = 0$. If the velocity of mass B and $x = 3$m is 'v' and its maximum displacement is $x_{max}$, then choose the correct option
(1) $v = 5$ m/s    (2) $v = 10$ m/s
(3) $x_{max} = 8\sqrt{2}$ m   (4) $x_{max} = 8$ m

10. A man of mass 'm' on an initially stationary boat gets off of the boat by leaping to the left in an exactly horizontal direction. Immmediately after the leap, the boat, of mass M, is observed to be moving to the right at speed v.

(1) Work done by man on boat $\frac{1}{2}(m)v^2$

(2) Total work done by man is $\frac{1}{2}\left(\frac{M^2}{m} + M\right)v^2$

(3) Velocity of centre of mass of system is v

(4) Work done by man on himself $\frac{1}{2}\frac{M^2}{m}v^2$

11. The potential energy function of a particle moving in the one dimension is $U = kx^2 \, e^{-x^2/a^2}$ where a and k are constant then
(1) equilibrium exists at $x = \pm a$
(2) equilibrium is stable at $x = 0$

12. A heavy particle hanging from a string of length L is projected horizontally with speed $\sqrt{gL}$. Speed of the particle at the point where tension in the string equals weight of the particle will be

(1) $\sqrt{gL}$      (2) $\sqrt{2gL}$

(3) $\sqrt{\frac{gL}{3}}$      (4) $\sqrt{\frac{2gL}{3}}$

13. A particle moves with deceleration along the circle of radius R so that at any moment of time its tangential and normal accelerations are equal in moduli. At the initial moment the angular speed is $\omega_0$, then angular speed of particle after one revolution will be
(1) $\omega_0$      (2) $\omega_0 e^{2\pi}$
(3) $\omega_0 e^{-2\pi}$     (4) zero

14. 



Front view of Motorcycle

A trick cyclist rides his bike around a well of death in the form of a vertical cylinder (see figure). The maximum frictional force parallel to the surface of the cylinder is equal to a fraction $\mu$ of the normal force exerted by the wall. At what minimum constant speed must the cylist go to avoid slipping down? (Assume that size of motorcycle is very small as compared to cylinder.

(1) $\left[\frac{2gr\cos\theta}{\mu}\right]^{1/2}$   (2) $\left[\frac{gr\sin\theta}{2\mu}\right]^{1/2}$

(3) $\left(\frac{gr}{\mu}\right)^{1/2}$    (4) $\left(\frac{2gr}{\mu}\right)^{1/2}$

15. 



On the figure shown, a stone tied to a light string is oscillating between extreme points A and C in a vertical plane. Acceleration of stone has magnitude $a_A$, $a_B$ and $a_C$ at the respective points then (Given: $\sin\theta = 4/5$)
(1) $a_A = a_B$    (2) $a_B = 2a_A$
(3) $2a_B = a_A + a_C$   (4) $a_A = a_C$

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